

SEQUENCE LISTING

<110> University of Utah Research Foundation  
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Li, Dean Y.

<120> ELASTIN-BASED COMPOSITIONS

<130> 22458-702

<140> Not Yet Assigned

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<150> PCT/US00/02526

<151> 2000-02-28

<150> US 09/258,217

<151> 1999-02-26

<160> 8

<170> FastSEQ for Windows Version 4.0

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<211> 6

<212> PRT

<213> Homo sapiens

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<213> Artificial Sequence

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<223> Synthetic

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20 25 30  
Val Ala Pro Gly Val Gly Val Ala Pro Gly  
35 40

<210> 3  
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<400> 3

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Leu	Leu	Ser	Ile	Leu	His	Pro	Ser	Arg	Pro	Gly	Gly	Val	Pro	Gly	Ala
			20					25					30		
Ile	Pro	Gly	Gly	Val	Pro	Gly	Gly	Val	Phe	Tyr	Pro	Gly	Ala	Gly	Leu
		35					40					45			
Gly	Ala	Leu	Gly	Gly	Gly	Ala	Leu	Gly	Pro	Gly	Gly	Lys	Pro	Leu	Lys
	50					55					60				
Pro	Val	Pro	Gly	Gly	Leu	Ala	Gly	Ala	Gly	Leu	Gly	Ala	Gly	Leu	Gly
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Ala	Phe	Pro	Ala	Val	Thr	Phe	Pro	Gly	Ala	Leu	Val	Pro	Gly	Gly	Val
				85					90					95	
Ala	Asp	Ala	Ala	Ala	Ala	Tyr	Lys	Ala	Ala	Lys	Ala	Gly	Ala	Gly	Leu
			100					105					110		
Gly	Gly	Val	Pro	Gly	Val	Gly	Gly	Leu	Gly	Val	Ser	Ala	Gly	Ala	Val
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Val	Pro	Gln	Pro	Gly	Ala	Gly	Val	Lys	Pro	Gly	Lys	Val	Pro	Gly	Val
	130					135						140			
Gly	Leu	Pro	Gly	Val	Tyr	Pro	Gly	Gly	Val	Leu	Pro	Gly	Ala	Arg	Phe
145					150					155				160	
Pro	Gly	Val	Gly	Val	Leu	Pro	Gly	Val	Pro	Thr	Gly	Ala	Gly	Val	Lys
				165					170					175	
Pro	Lys	Ala	Pro	Gly	Val	Gly	Gly	Ala	Phe	Ala	Gly	Ile	Pro	Gly	Val
			180					185					190		
Gly	Pro	Phe	Gly	Gly	Pro	Gln	Pro	Gly	Val	Pro	Leu	Gly	Tyr	Pro	Ile
		195					200					205			
Lys	Ala	Pro	Lys	Leu	Pro	Gly	Gly	Tyr	Gly	Leu	Pro	Tyr	Thr	Thr	Gly
	210					215					220				
Lys	Leu	Pro	Tyr	Gly	Tyr	Gly	Pro	Gly	Gly	Val	Ala	Gly	Ala	Ala	Gly
225					230					235					240
Lys	Ala	Gly	Tyr	Pro	Thr	Gly	Thr	Gly	Val	Gly	Pro	Gln	Ala	Ala	Ala
				245					250					255	
Ala	Ala	Ala	Ala	Lys	Ala	Ala	Ala	Lys	Phe	Gly	Ala	Gly	Ala	Ala	Gly
			260					265					270		
Val	Leu	Pro	Gly	Val	Gly	Gly	Ala	Gly	Val	Pro	Gly	Val	Pro	Gly	Ala
		275					280					285			
Ile	Pro	Gly	Ile	Gly	Gly	Ile	Ala	Gly	Val	Gly	Thr	Pro	Ala	Ala	Ala
	290					295					300				
Ala	Ala	Ala	Ala	Ala	Ala	Ala	Lys	Ala	Ala	Lys	Tyr	Gly	Ala	Ala	Ala
305					310					315					320
Gly	Leu	Val	Pro	Gly	Gly	Pro	Gly	Phe	Gly	Pro	Gly	Val	Val	Gly	Val
				325					330					335	
Pro	Gly	Ala	Gly	Val	Pro	Gly	Val	Gly	Val	Pro	Gly	Ala	Gly	Ile	Pro
			340					345					350		

Val	Val	Pro	Gly	Ala	Gly	Ile	Pro	Gly	Ala	Ala	Val	Pro	Gly	Val	Val		
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Ser	Pro	Glu	Ala	Ala	Ala	Lys	Ala	Ala	Ala	Lys	Ala	Ala	Lys	Tyr	Gly		
	370					375					380						
Ala	Arg	Pro	Gly	Val	Gly	Val	Gly	Gly	Ile	Pro	Thr	Tyr	Gly	Val	Gly		
385					390					395					400		
Ala	Gly	Gly	Phe	Pro	Gly	Phe	Gly	Val	Gly	Val	Gly	Gly	Ile	Pro	Gly		
				405					410					415			
Val	Ala	Gly	Val	Pro	Gly	Val	Gly	Gly	Val	Pro	Gly	Val	Gly	Gly	Val		
			420					425					430				
Pro	Gly	Val	Gly	Ile	Ser	Pro	Glu	Ala	Gln	Ala	Ala	Ala	Ala	Ala	Lys		
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Ala	Ala	Lys	Tyr	Gly	Val	Gly	Thr	Pro	Ala	Ala	Ala	Ala	Ala	Lys	Ala		
	450					455					460						
Ala	Ala	Lys	Ala	Ala	Gln	Phe	Ala	Leu	Leu	Asn	Leu	Ala	Gly	Leu	Val		
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Val	Ala	Pro	Gly	Val	Gly	Leu	Ala	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly		
			500					505					510				
Val	Gly	Val	Ala	Pro	Gly	Val	Gly	Val	Ala	Pro	Gly	Ile	Gly	Pro	Gly		
	515					520						525					
Gly	Val	Ala	Ala	Ala	Ala	Lys	Ser	Ala	Ala	Lys	Val	Ala	Ala	Lys	Ala		
	530					535					540						
Gln	Leu	Arg	Ala	Ala	Ala	Gly	Leu	Gly	Ala	Gly	Ile	Pro	Gly	Leu	Gly		
545					550					555					560		
Val	Gly	Val	Gly	Val	Pro	Gly	Leu	Gly	Val	Gly	Ala	Gly	Val	Pro	Gly		
				565					570					575			
Leu	Gly	Val	Gly	Ala	Gly	Val	Pro	Gly	Phe	Gly	Ala	Val	Pro	Gly	Ala		
			580					585					590				
Leu	Ala	Ala	Ala	Lys	Ala	Ala	Lys	Tyr	Gly	Ala	Ala	Val	Pro	Gly	Val		
	595					600						605					
Leu	Gly	Gly	Leu	Gly	Ala	Leu	Gly	Gly	Val	Gly	Ile	Pro	Gly	Gly	Val		
	610					615					620						
Val	Gly	Ala	Gly	Pro	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Lys	Ala	Ala	Ala		
625					630					635					640		
Lys	Ala	Ala	Gln	Phe	Gly	Leu	Val	Gly	Ala	Ala	Gly	Leu	Gly	Gly	Leu		
				645					650					655			
Gly	Val	Gly	Gly	Leu	Gly	Val	Pro	Gly	Val	Gly	Gly	Leu	Gly	Gly	Ile		
			660					665					670				
Pro	Pro	Ala	Ala	Ala	Ala	Lys	Ala	Ala	Lys	Tyr	Gly	Val	Ala	Ala	Arg		
	675					680						685					
Pro	Gly	Phe	Gly	Leu	Ser	Pro	Ile	Phe	Pro	Gly	Gly	Ala	Cys	Leu	Gly		
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Lys	Ala	Cys	Gly	Arg	Lys	Arg	Lys										
705					710												

<210> 4  
 <211> 6  
 <212> PRT

<213> Artificial Sequence

<220>

<223> Sequence encoded by forward primer

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Met Ala Gly Leu Thr Ala  
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<210> 5

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer

<400> 5

ctgctgctgc atatggcggg tctgacggcg

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<210> 6

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Sequence encoded by complement to reverse primer

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Ala Cys Gly Arg Lys Arg Lys Gln Lys Leu Ile Ser Glu Glu Asp Leu  
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<210> 7

<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer

<400> 7

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60

66

<210> 8

<211> 730

<212> PRT

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<220>

## &lt;223&gt; Human elastin-c-myc fusion

&lt;400&gt; 8

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Ala	Pro	Arg	Pro	Gly	Val	Leu	Leu	Leu	Leu	Leu	Leu	Ser	Ile	Leu	His	Pro
			20					25						30		
Ser	Arg	Pro	Gly	Gly	Val	Pro	Gly	Ala	Ile	Pro	Gly	Gly	Val	Pro	Gly	
		35					40					45				
Gly	Val	Phe	Tyr	Pro	Gly	Ala	Gly	Leu	Gly	Ala	Leu	Gly	Gly	Gly	Ala	
	50					55					60					
Leu	Gly	Pro	Gly	Gly	Lys	Pro	Leu	Lys	Pro	Val	Pro	Gly	Gly	Leu	Ala	
65					70					75					80	
Gly	Ala	Gly	Leu	Gly	Ala	Gly	Leu	Gly	Ala	Phe	Pro	Ala	Val	Thr	Phe	
				85					90					95		
Pro	Gly	Ala	Leu	Val	Pro	Gly	Gly	Val	Ala	Asp	Ala	Ala	Ala	Ala	Tyr	
			100					105					110			
Lys	Ala	Ala	Lys	Ala	Gly	Ala	Gly	Leu	Gly	Gly	Val	Pro	Gly	Val	Gly	
		115					120						125			
Gly	Leu	Gly	Val	Ser	Ala	Gly	Ala	Val	Val	Pro	Gln	Pro	Gly	Ala	Gly	
	130					135					140					
Val	Lys	Pro	Gly	Lys	Val	Pro	Gly	Val	Gly	Leu	Pro	Gly	Val	Tyr	Pro	
145					150					155					160	
Gly	Gly	Val	Leu	Pro	Gly	Ala	Arg	Phe	Pro	Gly	Val	Gly	Val	Leu	Pro	
				165					170					175		
Gly	Val	Pro	Thr	Gly	Ala	Gly	Val	Lys	Pro	Lys	Ala	Pro	Gly	Val	Gly	
			180					185					190			
Gly	Ala	Phe	Ala	Gly	Ile	Pro	Gly	Val	Gly	Pro	Phe	Gly	Gly	Pro	Gln	
		195					200					205				
Pro	Gly	Val	Pro	Leu	Gly	Tyr	Pro	Ile	Lys	Ala	Pro	Lys	Leu	Pro	Gly	
	210					215					220					
Gly	Tyr	Gly	Leu	Pro	Tyr	Thr	Thr	Gly	Lys	Leu	Pro	Tyr	Gly	Tyr	Gly	
225					230					235					240	
Pro	Gly	Gly	Val	Ala	Gly	Ala	Ala	Gly	Lys	Ala	Gly	Tyr	Pro	Thr	Gly	
				245					250					255		
Thr	Gly	Val	Gly	Pro	Gln	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Lys	Ala	Ala	
			260					265					270			
Ala	Lys	Phe	Gly	Ala	Gly	Ala	Ala	Gly	Val	Leu	Pro	Gly	Val	Gly	Gly	
		275					280					285				
Ala	Gly	Val	Pro	Gly	Val	Pro	Gly	Ala	Ile	Pro	Gly	Ile	Gly	Gly	Ile	
	290					295					300					
Ala	Gly	Val	Gly	Thr	Pro	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	
305					310					315					320	
Lys	Ala	Ala	Lys	Tyr	Gly	Ala	Ala	Ala	Gly	Leu	Val	Pro	Gly	Gly	Pro	
				325					330					335		
Gly	Phe	Gly	Pro	Gly	Val	Val	Gly	Val	Pro	Gly	Ala	Gly	Val	Pro	Gly	
			340					345					350			
Val	Gly	Val	Pro	Gly	Ala	Gly	Ile	Pro	Val	Val	Pro	Gly	Ala	Gly	Ile	
		355					360					365				
Pro	Gly	Ala	Ala	Val	Pro	Gly	Val	Val	Ser	Pro	Glu	Ala	Ala	Ala	Lys	

370	375	380
Ala Ala Ala Lys Ala	Ala Lys Tyr Gly Ala	Arg Pro Gly Val Gly Val
385	390	395
Gly Gly Ile Pro Thr	Tyr Gly Val Gly Ala	Gly Gly Phe Pro Gly Phe
405	410	415
Gly Val Gly Val Gly	Gly Gly Ile Pro Gly	Val Ala Gly Val Pro Gly Val
420	425	430
Gly Gly Val Pro Gly	Val Gly Gly Val Pro	Gly Val Gly Ile Ser Pro
435	440	445
Glu Ala Gln Ala Ala	Ala Ala Lys Ala Ala	Lys Tyr Gly Val Gly
450	455	460
Thr Pro Ala Ala Ala	Ala Ala Lys Ala Ala	Lys Ala Ala Gln Phe
465	470	475
Ala Leu Leu Asn Leu	Ala Gly Leu Val Pro	Gly Val Gly Val Ala Pro
485	490	495
Gly Val Gly Val Ala	Pro Gly Val Gly	Val Ala Pro Gly Val Gly Leu
500	505	510
Ala Pro Gly Val Gly	Val Ala Pro Gly	Val Gly Val Ala Pro Gly Val
515	520	525
Gly Val Ala Pro Gly	Ile Gly Pro Gly	Gly Val Ala Ala Ala Lys
530	535	540
Ser Ala Ala Lys Val	Ala Ala Lys Ala Gln	Leu Arg Ala Ala Ala Gly
545	550	555
Leu Gly Ala Gly Ile	Pro Gly Leu Gly	Val Gly Val Gly Val Pro Gly
565	570	575
Leu Gly Val Gly Ala	Gly Val Pro Gly	Leu Gly Val Gly Ala Gly Val
580	585	590
Pro Gly Phe Gly Ala	Val Pro Gly	Ala Leu Ala Ala Lys Ala Ala
595	600	605
Lys Tyr Gly Ala Ala	Val Pro Gly	Val Leu Gly Gly Leu Gly Ala Leu
610	615	620
Gly Gly Val Gly Ile	Pro Gly Gly	Val Val Gly Ala Gly Pro Ala Ala
625	630	635
Ala Ala Ala Ala Ala	Lys Ala Ala Ala	Lys Ala Ala Gln Phe Gly Leu
645	650	655
Val Gly Ala Ala Gly	Leu Gly Gly Leu	Gly Val Gly Gly Leu Gly Val
660	665	670
Pro Gly Val Gly Gly	Leu Gly Gly Ile	Pro Pro Ala Ala Ala Lys
675	680	685
Ala Ala Lys Tyr Gly	Val Ala Ala Arg	Pro Gly Phe Gly Leu Ser Pro
690	695	700
Ile Phe Pro Gly Gly	Ala Cys Leu Gly	Lys Ala Cys Gly Arg Lys Arg
705	710	715
Lys Gln Lys Leu Ile	Ser Glu Glu Asp	Leu
725	730	